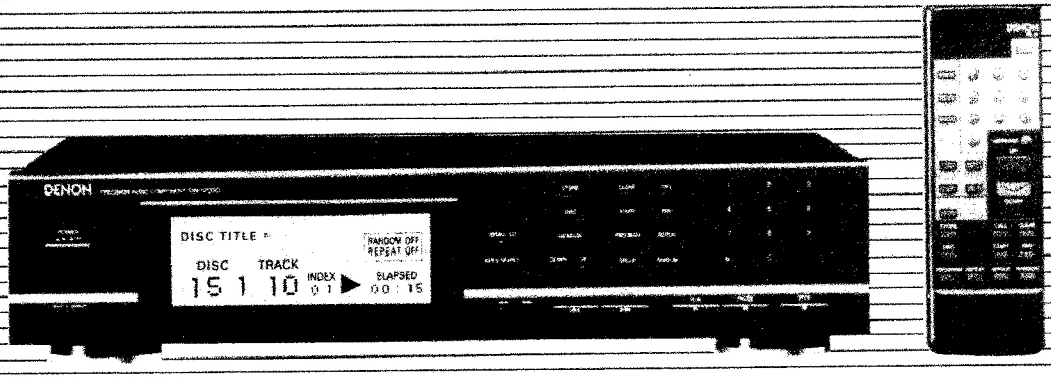
DENON

CONTROLLER

DN-1200C

OPERATING INSTRUCTIONS
BEDIENUNGSANLEITUNG
MODE D'EMPLOI
INSTRUCCIONES DE OPERACION


DENON
DISC TITLE
RANDOM OFF
REPEAT OFF
DISC
TRACK
INDEX
ELAPSED
15 1 10
01
00 : 15

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PARA LECTORES DE ESPAÑOL	PAGINA 58	~	PAGINA 75

CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user of the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user of the presence of important operating and maintenance (servicing) instruction in the literature accompanying the appliance.

CAUTION: TO PREVENT ELECTRICAL SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERTED.

ATTENTION: POUR EVITER LES CHOCS ELECTRIQUES, INTRODUIRE LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQU'AU FOND.

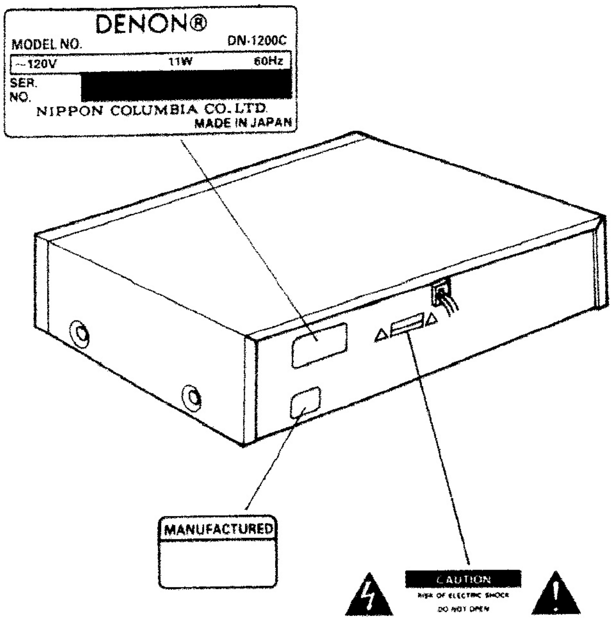
IMPORTANT (BRITISH MODEL ONLY)

The wires in the mains leads are coloured in accordance with the following codes:

Blue: Neutral, Brown: Live, Yellow/Green: Earth

If the colours of the wires in the mains leads of this apparatus do not correspond with the coloured markings identifying the terminals in your plug, proceed as follows. The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black. The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

LABELS



CAUTION:
USE OF CONTROLS OR ADJUSTMENTS OR REFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

THE CONTROLLER SHOULD NOT BE ADJUSTED OR REPAIRED BY ANYONE EXCEPT PROPERLY QUALIFIED SERVICE PERSONNEL.

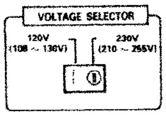
NOTE:
This unit may cause interference to radio and television reception if you do not operate it in strict accordance with this OPERATING INSTRUCTIONS.

This unit complies with Class B computing device rules in accordance with the specifications in Subpart J or Part 15 of the FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation. If the unit does cause interference to any radio or television reception, try to reduce it by one or more of the following means:

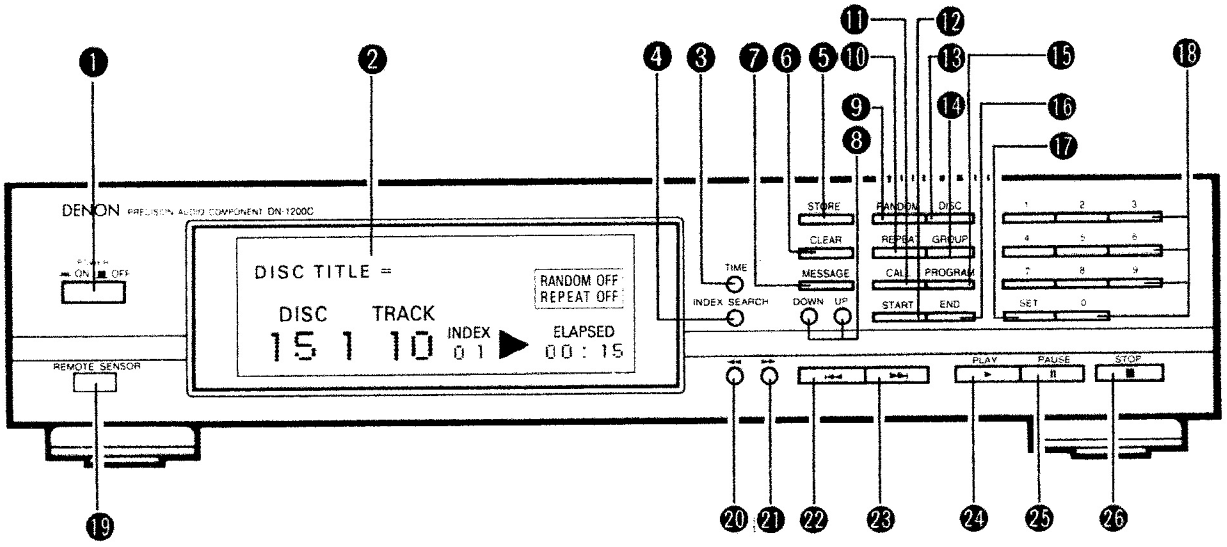
a) Turn the other unit to improve reception
b) Move this unit
c) Move this unit away from others
d) Plug this unit respectively into a different AC outlet

***This is note in accordance with Section 15.838 of the FCC Rules.**

- **Line Voltage Selection (for multiple voltage model only)**
  - * The desired voltage may be set with the VOLTAGE SELECTOR knob on the rear panel, using a screwdriver.
  - * Do not twist the VOLTAGE SELECTOR knob with excessive force as this may cause damage.
  - * If the VOLTAGE SELECTOR knob does not turn smoothly, please contact a qualified serviceman.



FRONT PANEL
VORDERSEITE
PANNEAU AVANT
PANEL DELANTERO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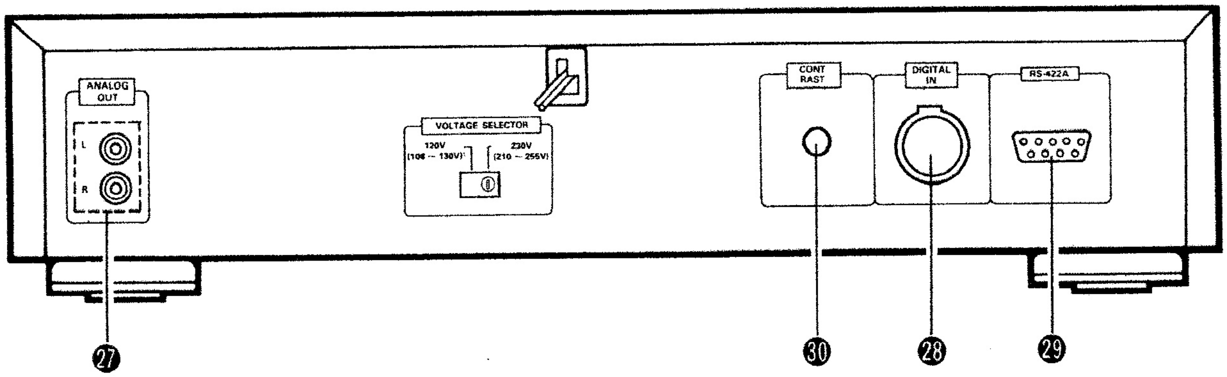
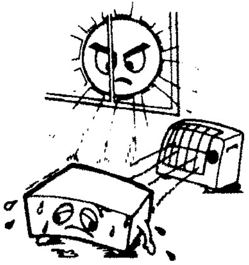
DENON PRECISION AUDIO COMPONENT DN-1200C
POWER
ON OFF
DISC TITLE =
RANDOM OFF
REPEAT OFF
DISC
TRACK
15 1 10
INDEX
01
ELAPSED
00 : 15
REMOTE SENSOR
TIME
INDEX SEARCH
DOWN
UP
STORE
CLEAR
MESSAGE
RANDOM
DISC
REPEAT
GROUP
CALL
PROGRAM
START
END
1
2
3
4
5
6
7
8
9
SET
0
PLAY
PAUSE
STOP
⓳
⓴
㉑
㉒
㉓
㉔
㉕
㉖

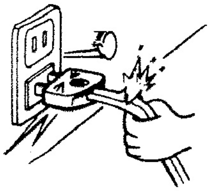
REAR PANEL
RÜCKSEITE
PANNEAU ARRIERE
PANEL TRASERO


ANALOG OUT
L
R
VOLTAGE SELECTOR
120V (108 ~ 130V)
230V (210 ~ 255V)
CONT RAST
DIGITAL IN
RS-422A
㉗
㉚
㉘
㉙

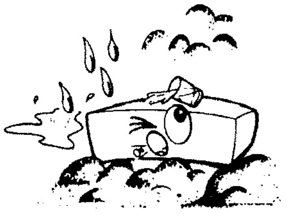
NOTE ON USE/HINWEISE ZUM GEBRAUCH/OBSERVATIONS RELATIVES A L'UTILISATION NOTE SULL'USO/NOTAS SOBRE EL USO/ALVORENS TE GEBRUIKEN/OBSERVERA OBSERVAÇÕES QUANTO AO USO



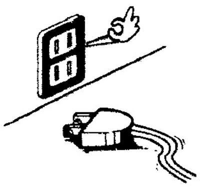
- Avoid high temperatures
  Allow for sufficient heat dispersion when installed on a rack.
- Vermeiden Sie hohe Temperaturen
  Beachten Sie, daß eine zureichende Luftzirkulation gewährleistet wird, wenn das Gerät auf ein Regal gestellt wird.
- Eviter des températures élevées
  Tenir compte d'une dispersion de chaleur suffisante lors de l'installation sur une étagère.
- Evitate di esporre l'unità a temperature alte.
  Assicuratevi che ci sia un'adeguata dispersione del calore quando installate l'unità in un mobile per componenti audio.
- Evite altas temperaturas
  Permite la suficiente dispersión del calor cuando está instalado en la consola.
- Vermijd hoge temperaturen.
  Zorg voor een degelijk hitteafvoer indien het apparaat op een rek wordt geplaatst.
- Undvik höga temperaturer.
  Se till att det finns möjlighet till god värmeavledning vid montering i ett rack.
- Evite temperaturas altas
  Conceda suficiente dispersão de calor quando o equipamento for instalado numa prateleira.



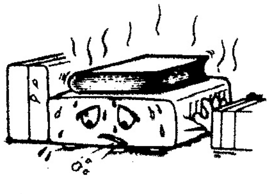
- Handle the power cord carefully.
  Hold the plug when unplugging the cord.
- Gehen Sie vorsichtig mit dem Netzkabel um.
  Halten Sie das Kabel am Stecker, wenn Sie den Stecker herausziehen.
- Manipuler le cordon d'alimentation avec précaution.
  Tenir la prise lors du débranchement du cordon.
- Manneggiate il filo di alimentazione con cura.
  Agite per la spina quando scollegate il cavo dalla presa.
- Maneje el cordón de energía con cuidado.
  Sostenga el enchufe cuando desconecte el cordón de energía.
- Hanteer het netsnoer voorzichtig.
  Houd het snoer bij de stekker vast wanneer deze moet worden aan- of losgekoppeld.
- Hantera nätkabeln varsamt.
  Håll i kabeln när den kopplas från eluttaget.
- Manuseie com cuidado o fio condutor de energia.
  Segure a tomada ao desconectar o fio.



- Keep the set free from moisture, water, and dust.
- Halten Sie das Gerät von Feuchtigkeit, Wasser und Staub fern.
- Protéger l'appareil contre l'humidité, l'eau et la poussière.
- Tenete l'unità lontana dall'umidità, dall'acqua e dalla polvere.
- Mantenga el equipo libre de humedad, agua y polvo.
- Laat geen vochtigheid, water of stof in het apparaat binnendringen.
- Utsätt inte apparaten för fukt, vatten och damm.
- Mantenha o aparelho livre de qualquer umidade, água ou poeira.

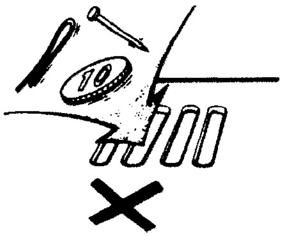


- Unplug the power cord when not using the set for long periods of time.
- Wenn das Gerät eine längere Zeit nicht verwendet werden soll, trennen Sie das Netzkabel vom Netzstecker.
- Débrancher le cordon d'alimentation lorsque l'appareil n'est pas utilisé pendant de longues périodes.
- Disinnestate il filo di alimentazione quando avete l'intenzione di non usare il filo di alimentazione per un lungo periodo di tempo.
- Desconecte el cordón de energía cuando no utilice el equipo por mucho tiempo.
- Neem altijd het netsnoer uit het stopkontakt wanneer het apparaat gedurende een lange periode niet wordt gebruikt.
- Koppla ur nätkabeln om apparaten inte kommer att användas i lång tid.
- Desligue o fio condutor de força quando o aparelho não tiver que ser usado por um longo período.

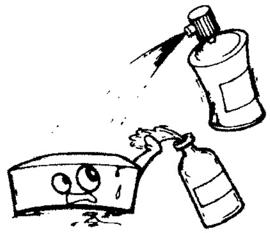


*(For sets with ventilation holes)

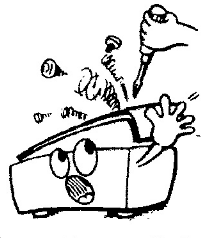
- Do not obstruct the ventilation holes.
- Die Belüftungsöffnungen dürfen nicht verdeckt werden.
- Ne pas obstruer les trous d'aération.
- Non coprite i fori di ventilazione.
- No obstruya los orificios de ventilación.
- De ventilatieopeningen mogen niet worden beblokkeerd.
- Täpp inte till ventilationsöppningarna.
- Não obstrua os orifícios de ventilação.



- Do not let foreign objects in the set.
- Keine fremden Gegenstände in das Gerät kommen lassen.
- Ne pas laisser des objets étrangers dans l'appareil.
- E' importante che nessun oggetto è inserito all'interno dell'unità.
- No deje objetos extraños dentro del equipo.
- Laat geen vreemde voorwerpen in dit apparaat vallen.
- Se till att främmande föremål inte tränger in i apparaten.
- Não deixe objetos estranhos no aparelho.



- Do not let insecticides, benzene, and thinner come in contact with the set.
- Lassen Sie das Gerät nicht mit Insektiziden, Benzin oder Verdünnungsmitteln in Berührung kommen.
- Ne pas mettre en contact des insecticides, du benzène et un diluant avec l'appareil.
- Assicuratevvi che l'unità non venga in contatto con insetticidi, benzolo o solventi.
- No permita el contacto de insecticidas, gasolina y diluyentes con el equipo.
- Laat geen insektenverdelgende middelen, benzine of verfverdunner met dit apparaat in kontakt komen.
- Se till att inte insektsmedel på spraybruk, bensen och thinner kommer i kontakt med apparatens hölje.
- Não permita que inseticidas, benzina e dissolvente entrem em contacto com o aparelho.



- Never disassemble or modify the set in any way.
- Versuchen Sie niemals das Gerät auseinander zu nehmen oder auf jegliche Art zu verändern.
- Ne jamais démonter ou modifier l'appareil d'une manière ou d'une autre.
- Non smontate mai, nè modificate l'unità in nessun modo.
- Nunca desarme o modifique el equipo de ninguna manera.
- Nooit dit apparaat demonteren of op andere wijze modifiëren.
- Ta inte isär apparaten och försök inte bygga om den.
- Nunca desmonte ou modifique o aparelho de alguma forma.

IMPORTANT TO SAFETY

WARNING:

TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

Please check to make sure the following items, aside from the main unit, are packed in the carton.

(1)	Operating Instructions	1
(2)	Connection Cord	1
(3)	Remote Control Unit RC-30	1
(4)	R6P AA Dry Cell Battery	2
(5)	CD Index File	1

CAUTION:

1. **Handle the power supply cord carefully**
   Do not damage or deform the power supply cord. If it is damaged or deformed, it may cause electric shock or malfunction when used. When disconnecting it from wall outlet, be sure to hold the plug attachment. Do not pull on the cord.
2. **Do not open the top cover.**
   In order to prevent electric shock, do not open the top cover. If problems occur, contact your DENON dealer.
3. **Do not place anything inside**
   Do not place metal objects or spill liquid inside the controller, as this may result in electric shocks or malfunction.

Please record and retain the model name and serial number of your set shown on the rating label.
Model No. DN-1200C Serial No. ____________

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1 GENERAL

Main Features

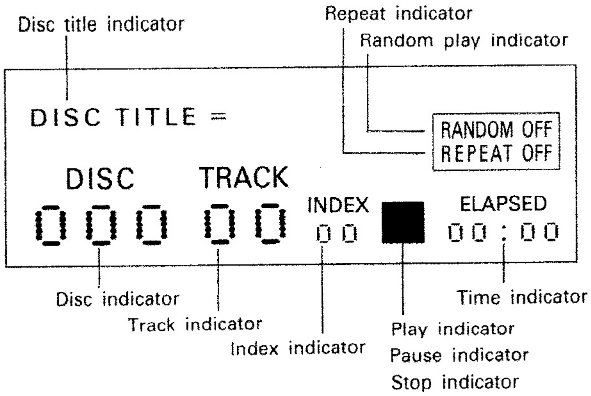
1. **Group playback**
   Store your disc in categories such as Classical, Dad's Favorites, Jazz, Holidays, etc. You can store one CD in two or more Groups when, for example, one of Mom's Favorites is also Rock. There are six groups and each can hold 100 disc selections.
2. **Program playback**
   Create up to six programs of favorite Tracks in any combination. Since each program can hold 100 entries, we've made it easy to add or delete a selection from any program.
   You can also assign each Group or Program a name making your files easy to remember.
3. **Storing CD titles**
   If you want to see the title of every CD in your changers(s) (up to 800 titles), it's a simple matter to catalog them. By storing Groups, Programs, and CD Titles in a permanent memory, it's easy to keep track of every CD in your jukebox collection. Also, a CD Index File is included with every DN-1200C. Just store your CD sleeves in this notebook for a ready reference to the details of every CD in your library.
4. **Random playback**
   Three different Random modes are offered: Random Disc, Random Disc & Track, or Random All. These modes offer the flexibility to hear Groups and Programs in any format you choose.
   If the player has been Optimized (found all of the CDs in your library), Random modes are also available in Direct play back.
5. **Segment playback**
   An excellent feature for creating sound effects, Segment playback lets you define the starting and endpoint of a segment within a track.
6. **Infrared (IR) Remote Control System**
   The supplied RC-30 remote offers wireless control of almost every function in the DN-1200C. Universal remotes and other IR control systems can be programmed from the supplied remote, making it simple to integrate the DN-1200 system into any custom design.
7. **20-Bit Advanced SLC D/A Converter**
8. **RS-422A Interface**
9. **Input/Output Connections**
   AES/EBU digital input, balanced XLR type
   Analog stereo output, RCA type
   Serial remote, 9-pin D-Sub

② DESCRIPTION OF THE FUNCTION

Names and Functions of Parts

① **POWER Switch**
Turn on the control unit.

② **LCD Display**
Continuous update of CD player's status.
- The digital display is divided into sections, such as displays for disc number, track number, index, playback, and time as shown below.



③ **TIME button**
Choose between elapsed or remaining time of track and remaining time of disc.

④ **INDEX SEARCH button**
Move to the next Index point within a track.

⑤ **STORE button**
Store new entries into a Group or Program.

⑥ **CLEAR button**
Erase entries in a Group or Program. Clear the last keyboard entry. Also used in the Message Mode.

⑦ **MESSAGE button**
Enter or exit the Message Mode. The Message Mode allows you to Label and delete Groups or Programs, label CDs, Optimize the changer's playback efficiency, and select Single or Continuous play. Message is only accessible when the player is Stopped.

⑧ **UP and DOWN buttons**
Use in the Message Mode to select letters, numerals, or punctuation for titles of Groups, Programs, and CDs.

⑨ **RANDOM button**
Play the selected Group, or Program in random order. Playing the entire library in random order is also possible.

⑩ **REPEAT button**
Repeat the selected track, Group, or Program. Repeating the entire library is also possible.

⑪ **CALL button**
Check order of discs or tracks in a Group or Program during playback.

⑫ **START button**
Select the starting point of a Segment chosen for playback.

⑬ **DISC button**
Use this button to select a Disc.

⑭ **GROUP button**
Use this button to select a Group.

⑮ **PROGRAM button**
Use this button to select a Program.

⑯ **END button**
Select the endpoint of a Segment chosen for playback.

⑰ **SET button**
Press this button after selecting a Track, Disc, Group, or Program to confirm the selection.

⑱ **Numeral (0-9) buttons**
Select a Track, Disc, Group, or Program number to be played or stored.

⑲ **Remote sensor**
Receives the infrared signal from an RC-30 remote control or any compatible universal remote.

⑳ **◀◀ (SEARCH BACK button)**
Use to search backward audibly within a track.

㉑ **▶▶ (SEARCH AHEAD button)**
Use to search forward audibly within a track.

㉒ **|◀◀ (PREVIOUS TRACK button)**
Pressing once returns you to the beginning of the current track. Press repeatedly to return to earlier tracks.

㉓ **▶▶| (NEXT TRACK button)**
Press to move to the next track. Press repeatedly to skip ahead to later tracks.

㉔ **▶ (PLAY button)**
Start playing current selection.

㉕ **II (PAUSE button)**
Interrupt playback. Resume playback of currently paused.

㉖ **■ (STOP button)**
Stop playing disc and return to Direct playback if in Group, Program, or Segment playback.

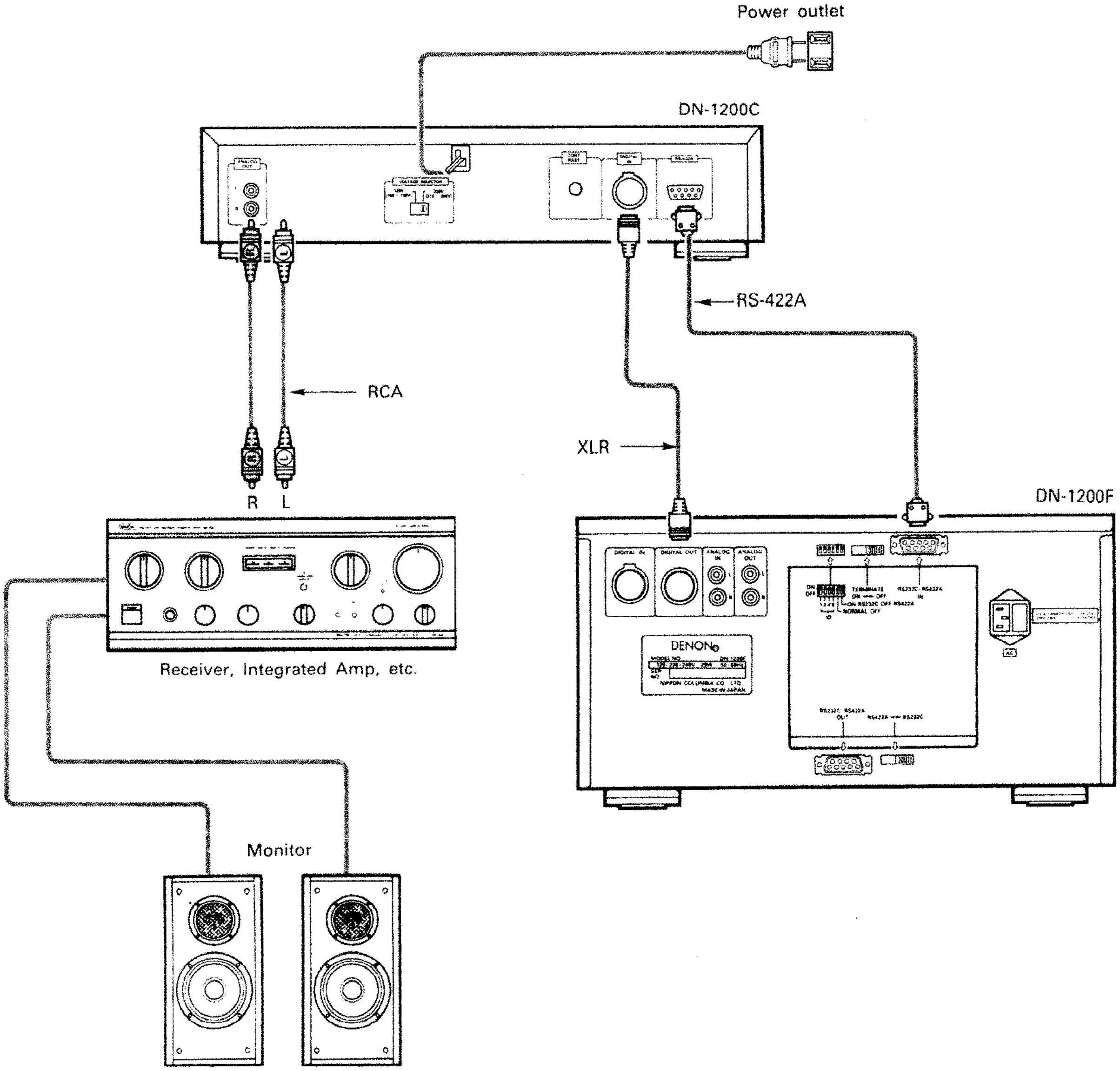
㉗ **ANALOG OUT jacks**
These RCA, unbalanced, stereo audio jacks are suitable for most home audio applications.

㉘ **DIGITAL IN jack**
This input conforms to the AES/EBU digital interface standard.
1) This is an active balanced type input using an XLR type connector.
2) Signal layout
   Pin 1 : Common
   Pin 2 : Cold
   Pin 3 : Hot
3) Applicable connector: Cannon XLR-3-12C or equivalent

㉙ **RS-422A connector**
Use this interface to control the DN-1200F CD changer.

㉚ **CONTRAST volume**
Adjusts the contrast of the display.

3 CONNECTIONS



Connection Precautions

Before proceeding with any connection or disconnection of cables or power cords, be sure to turn off the power to all system components.

Connect all cables as described in the above diagram.

Set the DN-1200F back panel switches as follows:

RS422A'RS232C:	RS422A
TERMINATE:	ON
ID:	1 (turn dipswitch 1 ON, all others OFF)

When using more than one DN-1200F with the controller:

RS422A'RS232C:	RS422A on all machines
TERMINATE:	OFF for all but final machine in the chain ON
ID:	Each machine must have a unique address.

Label them in order using the chart below:

Address	Dipswitch			
#	1	2	4	8
1	ON	OFF	OFF	OFF
2	OFF	ON	OFF	OFF
3	ON	ON	OFF	OFF
4	OFF	OFF	ON	OFF

If you have one DN-1200F, it should always be given Address 1. Consult the DN-1200F for details on connecting more than one DN-1200F to the DN-1200C.

Loading discs into the DN-1200F

The disc rack on the right hand side of your DN-1200F holds discs 1-100, the left disc rack holds discs 101-200. Discs should be loaded in order, from 1-200. This ensures your changer will change discs as quickly and efficiently as possible.

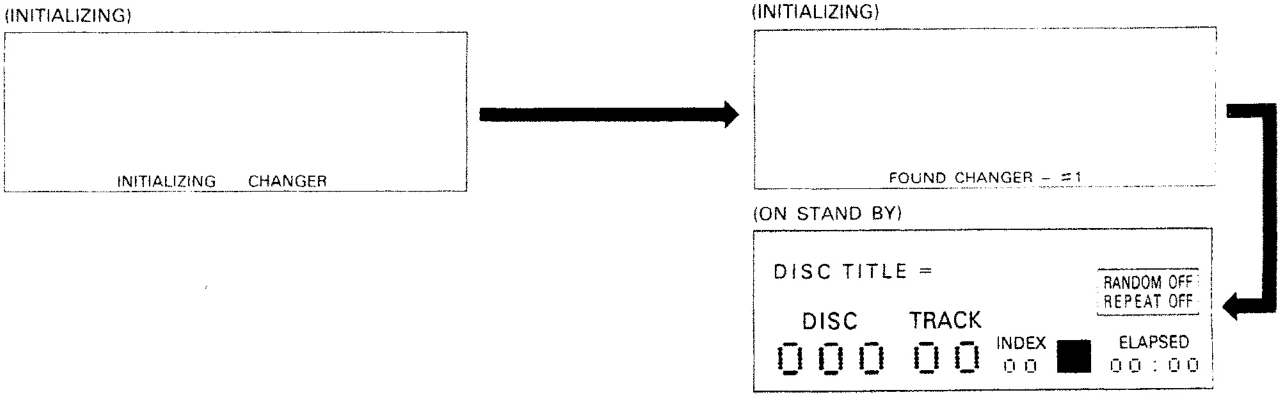
Disc labels always face the outside of the disc rack. The labels of CDs loaded into locations 1-50 and 101-150 will face the front of the changer. The remaining discs will face the rear of the machine. There is a divider in the center of each disc rack to help you determine which way labels should face.

4 OPERATIONS

Many of the functions on your DN-1200C are identical to any standard CD. But, since your DN-1200F can hold up over 10 continuous days of music, we've added some extra features to help you find and organize all those CDs.

POWER Switch (POWER)

- When the power is turned on, the DN-1200F is initialized, and the mechanism moves to the initial position. The LCD display is shown below.

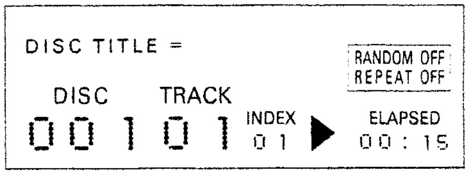


(INITIALIZING)
INITIALIZING CHANGER
(INITIALIZING)
FOUND CHANGER – =1
(ON STAND BY)
DISC TITLE =
RANDOM OFF
REPEAT OFF
DISC
TRACK
000 00
INDEX
00
ELAPSED
00 : 00

1) Direct Playback (continuous mode)

1-1. Play from Disc No. 001

▶ button — Playback in order from disc no. 1, track no. 1.



DISC TITLE =
RANDOM OFF
REPEAT OFF
DISC
TRACK
001 01
INDEX
01
ELAPSED
00 : 15

- This is the easiest way to play back your CDs. Simply pressing PLAY will start playback of your entire library, starting with disc 1, track 1. Press STOP to STOP the disc being played or PAUSE to pause playback at the current location.

1-2. Select Disc and Play

DISC button

↓

Numeral buttons (1 to 3-digit input)

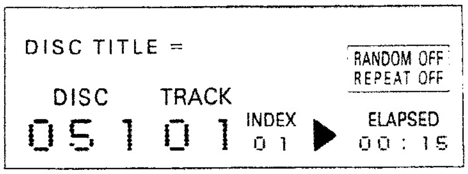
↓ To correct, delete wrong No. by CLEAR button, then input correct No. again.

SET button — After Disc No. is set, unit will search for the disc, when the disc is found, total Track No. is displayed, then press play (▶) button to start playing.

↓

▶ button — Playback from disc no. xxx, track number 1

Disc no. selection



DISC TITLE =
RANDOM OFF
REPEAT OFF
DISC
TRACK
051 01
INDEX
01
ELAPSED
00 : 15

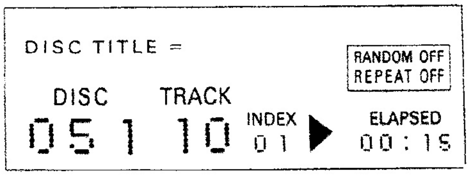
1-2-1. To change Track during playback

Numeral buttons (1 to 2-digit input)

↓ To correct, delete wrong No. by CLEAR button, then input correct No. again.

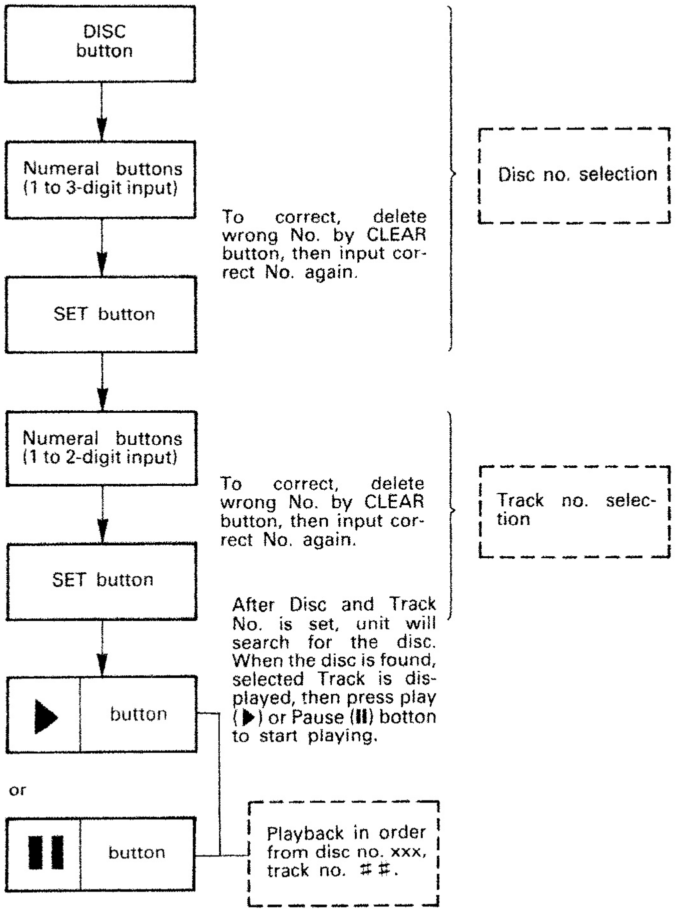
SET button

Track no. selection



DISC TITLE =
RANDOM OFF
REPEAT OFF
DISC
TRACK
051 10
INDEX
01
ELAPSED
00 : 15

1-3. Select Disc, Track and Play



DISC button

Numeral buttons (1 to 3-digit input)

To correct, delete wrong No. by CLEAR button, then input correct No. again.

SET button

Disc no. selection

Numeral buttons (1 to 2-digit input)

To correct, delete wrong No. by CLEAR button, then input correct No. again.

SET button

Track no. selection

After Disc and Track No. is set, unit will search for the disc. When the disc is found, selected Track is displayed, then press play (▶) or Pause (⏸) botton to start playing.

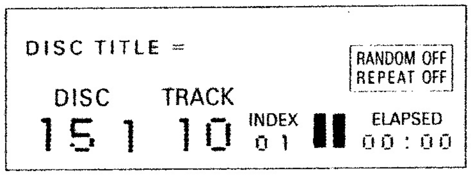
▶ button

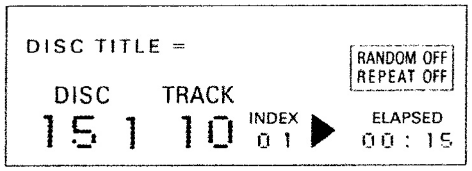
or

⏸ button

Playback in order from disc no. xxx, track no. ##.

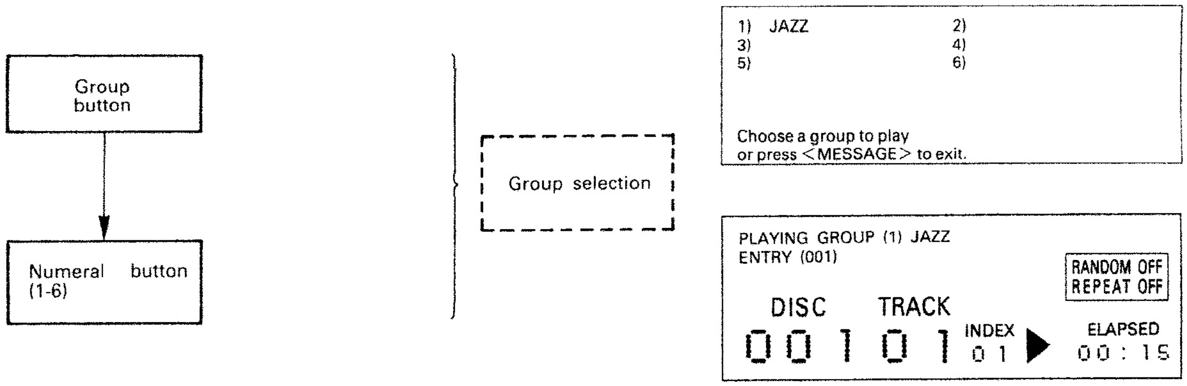
(Display)


DISC TITLE =
RANDOM OFF
REPEAT OFF
DISC
TRACK
151
10
INDEX
01
ELAPSED
00:00


DISC TITLE =
RANDOM OFF
REPEAT OFF
DISC
TRACK
151
10
INDEX
01
ELAPSED
00:15

- Direct access of a particular CD is accomplished by pressing DISC, disc # (1-800), then SET. To start playback press PLAY. To access a particular track, enter the track # (1-99) and press SET anytime after you have chosen the disc.
- If your selected disc No. slot contains no disc, "DISC READ ERROR" message is displayed for 5 seconds and unit will stop.

2) Group Playback



(Display)

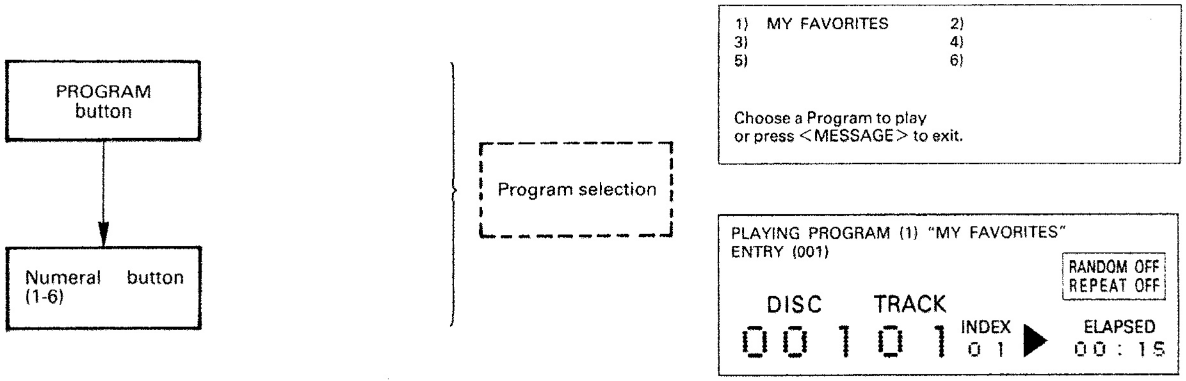
1) JAZZ 2)
3) 4)
5) 6)

Choose a group to play
or press <MESSAGE> to exit.

PLAYING GROUP (1) JAZZ
ENTRY (001)
RANDOM OFF
REPEAT OFF
DISC TRACK
001 01
INDEX 01 ▶
ELAPSED 00 : 15

- Playing any previously stored Group of discs is as easy as playing a disc. Press GROUP, the Group's number (1-6). The first CD in your group will be chosen.
- Groups can be repeated and/or played randomly. See Random & Repeat Playback for more information.
- To review your Group selections during PLAY, press the CALL button. The first grouped CD will be displayed. To view subsequent entries press CALL repeatedly. When you press CALL after viewing the final Group entry, pressing CLEAR or STOP to leave the CALL mode.
- Manual search keys (◀◀, ▶▶) are not effective in Group playback mode.

3) Program Playback



(Display)

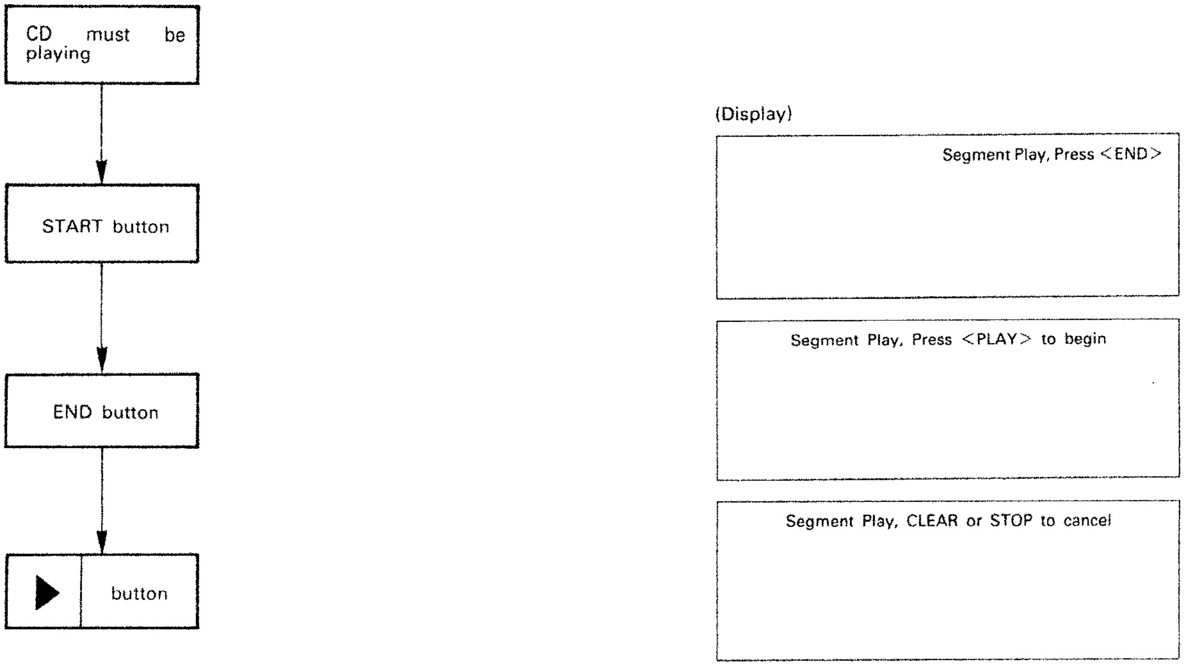
1) MY FAVORITES 2)
3) 4)
5) 6)

Choose a Program to play
or press <MESSAGE> to exit.

PLAYING PROGRAM (1) "MY FAVORITES"
ENTRY (001)
RANDOM OFF
REPEAT OFF
DISC TRACK
001 01
INDEX 01 ▶
ELAPSED 00 : 15

- Playing any of your previously stored programs is just like choosing a disc or a Group. Random playback is slightly different in that you can't playback complete discs, just tracks.
- To review your Program selections during PLAY, press the CALL button. The first programmed selection will be displayed. To view subsequent entries press CALL repeatedly. When you press CALL after viewing the final Program entry, pressing CLEAR or STOP to leave the CALL mode.
- Manual search keys (◀◀, ▶▶) are not effective in Program playback mode.

4) Segment Playback



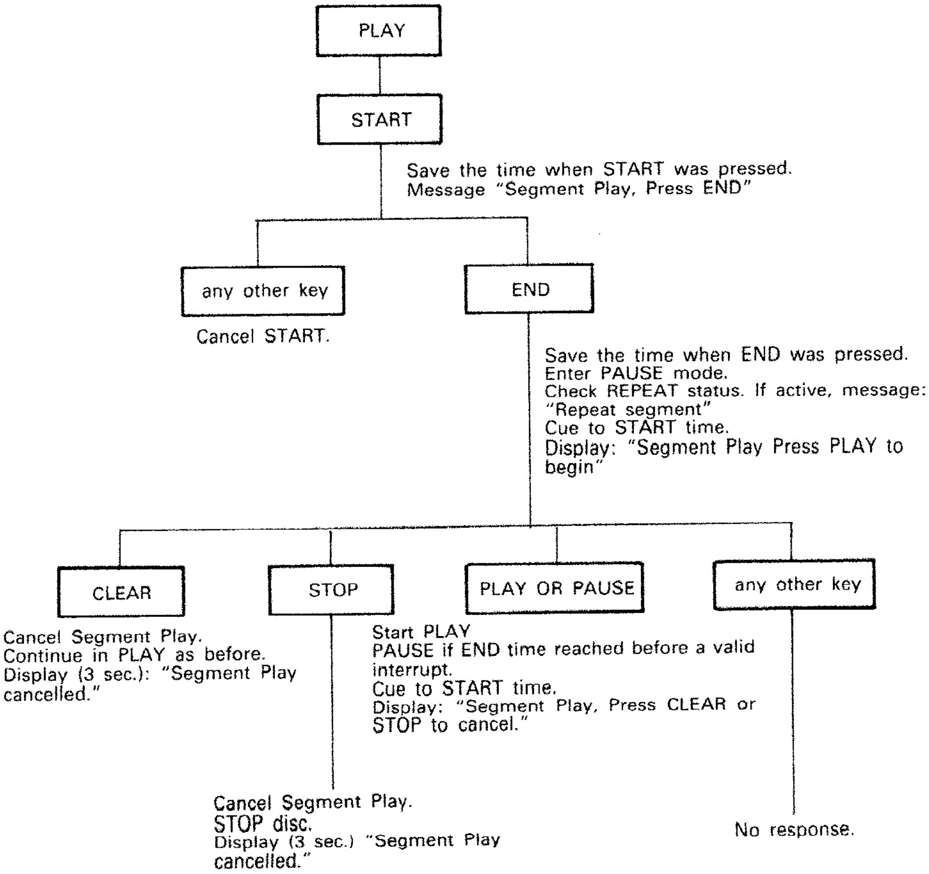
Segment Play, Press <END>

Segment Play, Press <PLAY> to begin

Segment Play, CLEAR or STOP to cancel

- Anytime you have a CD playing, it's possible to choose a segment of the song for playback. Press START where you want the segment to start, and END where it should end. After you press END, the player will cue up to your chosen starting point. Simply press play to hear this passage over again. When the segment is complete, the player will recue to your starting point. You can erase the segment at any time by pressing CLEAR, or press STOP to clear the segment and stop the disc.

Segment



Save the time when START was pressed.
Message "Segment Play, Press END"

Cancel START.

Save the time when END was pressed.
Enter PAUSE mode.
Check REPEAT status. If active, message: "Repeat segment"
Cue to START time.
Display: "Segment Play Press PLAY to begin"

Cancel Segment Play.
Continue in PLAY as before.
Display (3 sec.): "Segment Play cancelled."

Start PLAY
PAUSE if END time reached before a valid interrupt.
Cue to START time.
Display: "Segment Play, Press CLEAR or STOP to cancel."

Cancel Segment Play.
STOP disc.
Display (3 sec.) "Segment Play cancelled."

No response.

5) Random & Repeat Playback

- There are three levels of random play. You can 1) randomly choose discs, playing their tracks in normal order (Random disc), 2) randomly choose discs, then play back all of the songs on that disc in a random order (Random disc & track), or 3) randomly choose any track from any CD, then randomly choose another track from another random CD (Random all).
- Random works best during Group or Program playback. That's because the machine already knows where all of your discs are since you've already programmed this information earlier.
- If you want to play your entire disc library randomly in the Direct mode, choose OPTIMIZE from the MESSAGE menu. The optimizing procedure lets your DN-1200C memorize the location of all your discs. That way you aren't randomly looking for disc 176, track 5 when you've only got 175 discs in the machine. Note: For optimization to work, you must load your CDs sequentially, starting with position #1.
- Repeat works two ways. You can repeat the current track or segment (Repeat Track), or repeat the entire selection (Repeat All). Just like with random, you must optimize your CD player to permit Repeat All in the Direct mode.

The following chart will help you decide how to use random & repeat:

Direct continuous mode:

	Repeat off	Repeat track	Repeat all
Random off	yes	yes	yes*
Random disc	yes*	yes*	yes*
Random disc & track	yes*	yes*	yes*
Random all	yes*	yes*	yes*

*Machine must be "optimized".

Group continuous mode:

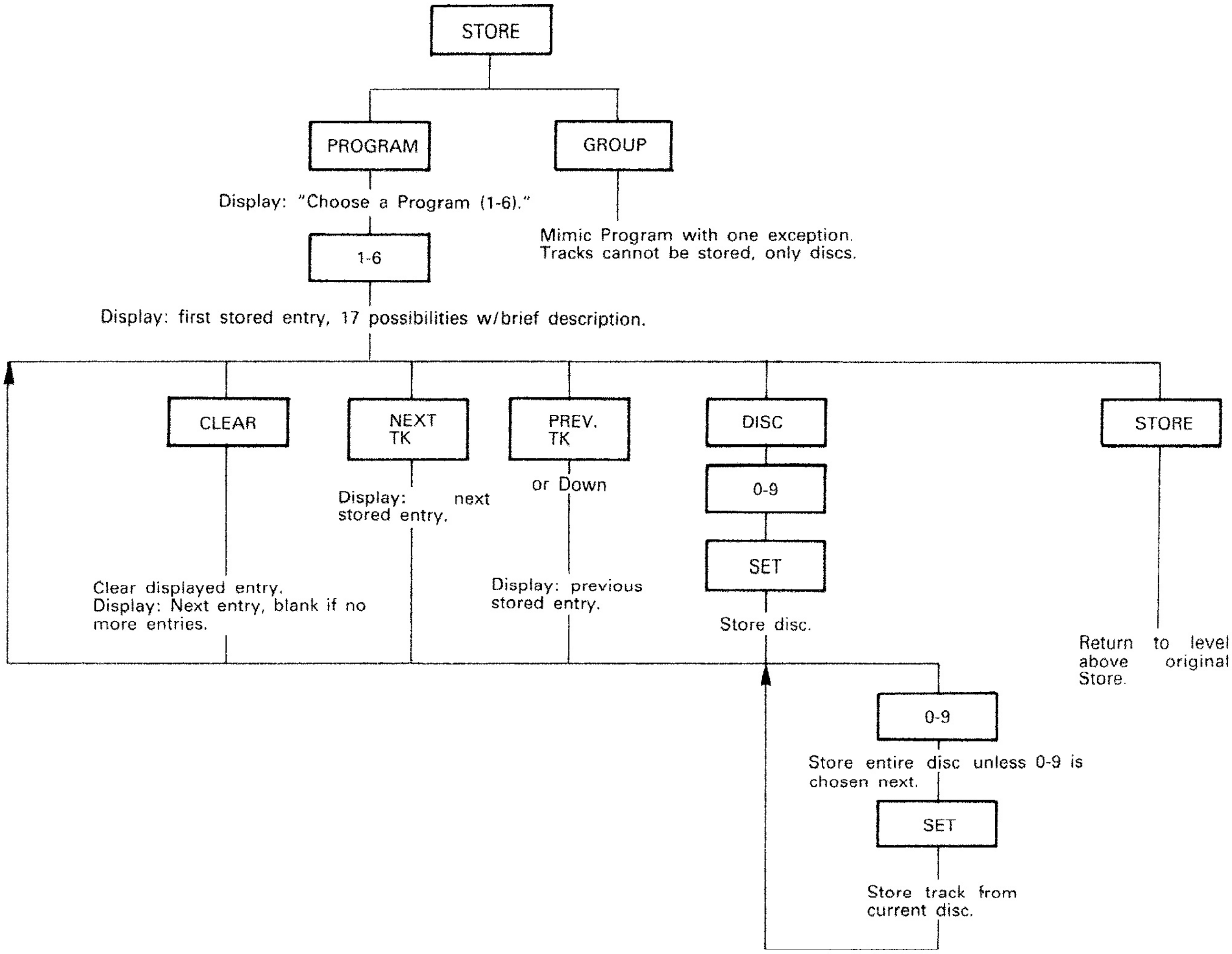
	Repeat off	Repeat track	Repeat all
Random off	yes	yes	yes
Random disc	yes	yes	yes
Random disc & track	yes	yes	yes
Random all	yes	yes	yes

Program continuous mode:

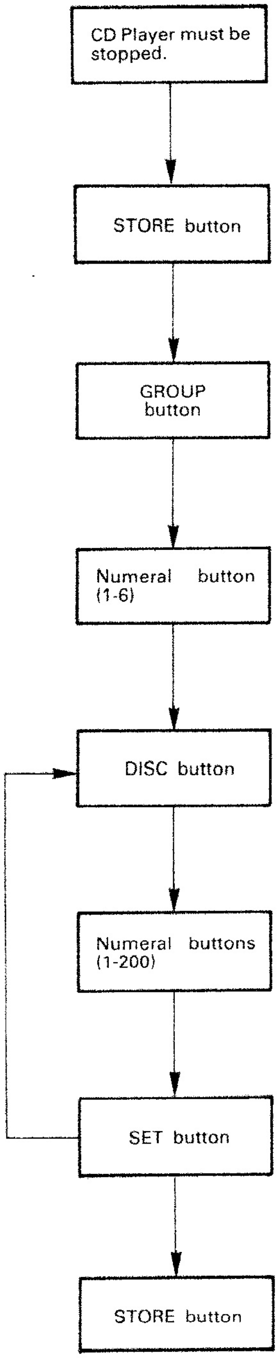
	Repeat off	Repeat track	Repeat all
Random off	yes	yes	yes
Random disc			
Random disc & track			
Random all	yes	yes	yes

Both random and repeat will only work in the Continuous. If these functions aren't working make sure you aren't in Single play (see MESSAGE operation for details).

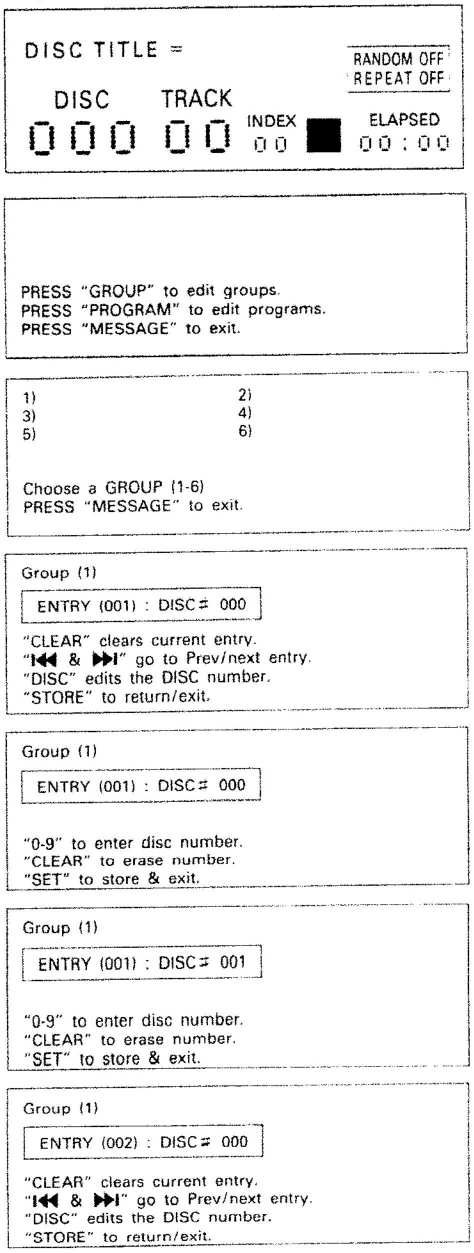
6) Storing Groups or Programs


STORE
PROGRAM
GROUP
Display: "Choose a Program (1-6)."
1-6
Mimic Program with one exception. Tracks cannot be stored, only discs.
Display: first stored entry, 17 possibilities w/brief description.
CLEAR
NEXT TK
PREV. TK
DISC
STORE
Display: next stored entry.
or Down
0-9
SET
Clear displayed entry. Display: Next entry, blank if no more entries.
Display: previous stored entry.
Store disc.
Return to level above original Store.
0-9
Store entire disc unless 0-9 is chosen next.
SET
Store track from current disc.

- **Storing a Group**


CD Player must be stopped.
STORE button
GROUP button
Numeral button (1-6)
DISC button
Numeral buttons (1-200)
SET button
STORE button

(Display)


DISC TITLE =
RANDOM OFF
REPEAT OFF
DISC
TRACK
INDEX
ELAPSED
000 00 00 ■ 00:00

PRESS "GROUP" to edit groups.
PRESS "PROGRAM" to edit programs.
PRESS "MESSAGE" to exit.

1) 2)
3) 4)
5) 6)

Choose a GROUP (1-6)
PRESS "MESSAGE" to exit.

Group (1)
ENTRY (001) : DISC# 000
"CLEAR" clears current entry.
"I◀◀ & ▶▶I" go to Prev/next entry.
"DISC" edits the DISC number.
"STORE" to return/exit.

Group (1)
ENTRY (001) : DISC# 000
"0-9" to enter disc number.
"CLEAR" to erase number.
"SET" to store & exit.

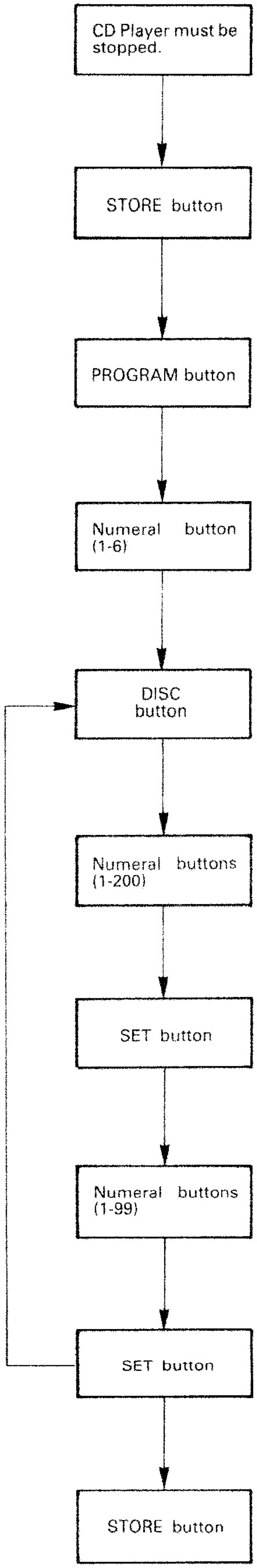
Group (1)
ENTRY (001) : DISC# 001
"0-9" to enter disc number.
"CLEAR" to erase number.
"SET" to store & exit.

Group (1)
ENTRY (002) : DISC# 000
"CLEAR" clears current entry.
"I◀◀ & ▶▶I" go to Prev/next entry.
"DISC" edits the DISC number.
"STORE" to return/exit.

- Create Groups of discs to categorize different types of CDs. Examples of possible Groups include:
  Jazz, Rock, Classical, Sound Effects
  Morning, Afternoon, Evening, Party
  Phil, Mark, Cathy, Chrissy
- Up to 100 CDs can be stored in one Group. Also, you can store one CD in two different Groups. For example, you may want to store Tchaikovsky's Nutcracker Suite in both your Classical and Holiday Groups.
- To store a new group, follow the procedure described in the above diagram. If you make a mistake or want to modify a previously stored group, simply use the I◀◀, ▶▶I and CLEAR buttons to delete entries. To insert a new CD into a group, use the I◀◀ and ▶▶I to find the CD you want your new disc to precede then press DISC, the CDs location (1-200), and SET.

CAUTION
- Effective period of memory back-up is about a week under normal temperature. If the memorized groups and programs cannot be called back, preset the memory again.

• Storing a Program


CD Player must be stopped.
STORE button
PROGRAM button
Numeral button (1-6)
DISC button
Numeral buttons (1-200)
SET button
Numeral buttons (1-99)
SET button
STORE button

(Display)

```
DISC TITLE =                                   RANDOM OFF
                                               REPEAT OFF
  DISC      TRACK
                     INDEX              ELAPSED
 000         00       00       ■         00 : 00
```

```
PRESS "GROUP" to edit groups.
PRESS "PROGRAM" to edit programs.
PRESS "MESSAGE" to exit.
```

```
1)                    2)
3)                    4)
5)                    6)

Choose a PROGRAM (1-6)
PRESS "MESSAGE" to exit.
```

```
PROGRAM (1)
ENTRY (001) : DISC= 000 : TRACK= 00
"CLEAR" deletes current entry.
"I◀◀ & ▶▶I" go to Prev/next entry.
"DISC" go to disc entry.
"STORE" to return exit.
```

```
PROGRAM (1)
ENTRY (001) : DISC= 000

"0-9" to enter disc number.
"CLEAR" to erase disc number.
"SET" to store & exit.
```

```
PROGRAM (1)
ENTRY (001) : DISC= 001

"0-9" to enter disc number.
"CLEAR" to erase disc number.
"SET" to store & exit.
```

```
PROGRAM (1)
ENTRY (001) : DISC= 001 : TRACK= 00
"CLEAR" deletes current entry.
"I◀◀ & ▶▶I" go to Prev/next entry.
"DISC" go to disc entry.
"STORE" to return exit.
```

```
PROGRAM (1)
ENTRY (001) : DISC= 001 : TRACK= 01
"CLEAR" deletes current entry.
"I◀◀ & ▶▶I" go to Prev/next entry.
"DISC" go to disc entry.
"STORE" to return exit.
```

```
PROGRAM (1)
ENTRY (002) : DISC= 000 : TRACK= 00
"CLEAR" deletes current entry.
"I◀◀ & ▶▶I" go to Prev/next entry.
"DISC" go to disc entry.
"STORE" to return exit.
```

- Storing a Program is the same as storing a Group with one more addition - now you store the Disc and Track numbers. Six programs with 100 entries in each can be stored and saved for as long as you choose. Programs can also be played randomly and/or repeated.

7) Using MESSAGE

Pressing the MESSAGE button will give you six options to choose from:

- Press "1" to label or delete Groups
- Press "2" to label or delete Programs
- Press "3" to label CDs
- Press "4" to choose Continuous or Single mode
- Press "5" to optimize CD playback
- Press "6" to reset all memory

Options 1 & 2

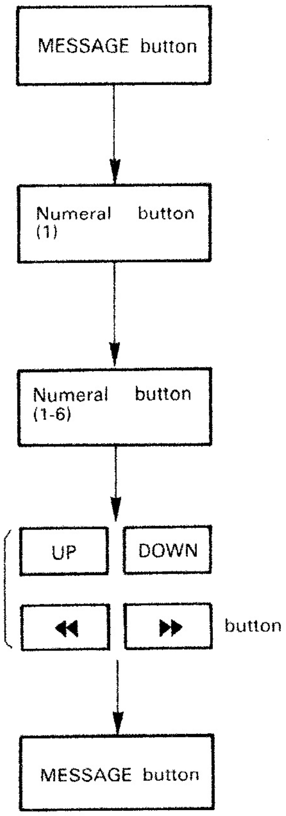
Labelling Groups or Programs

Choose the Group/Program you want to label or relabel. The current title will be displayed, ready to edit. Use the UP and DOWN buttons to choose a letter, numeral, blank, or punctuation. Use the ◀◀ and ▶▶ buttons to move back and forth through the letters. When you are done making the label, press MESSAGE.

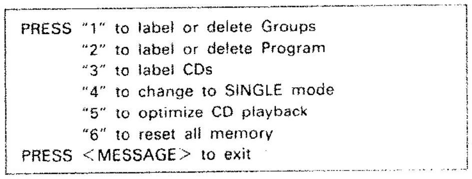
Deleting Groups or Programs

Press CLEAR then carefully choose the Group/Program you wish to delete.
Every entry stored in that Group/Program will be removed.

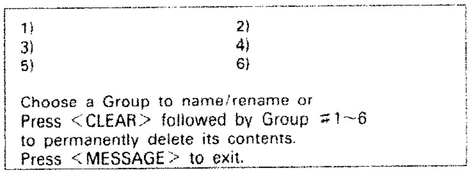
- **Labelling Groups**



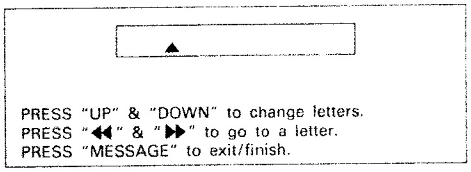
(Display)



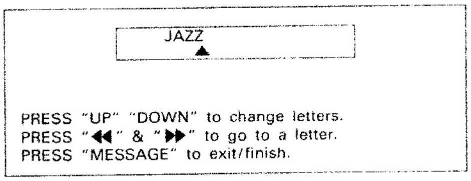
```
PRESS "1" to label or delete Groups
      "2" to label or delete Program
      "3" to label CDs
      "4" to change to SINGLE mode
      "5" to optimize CD playback
      "6" to reset all memory
PRESS <MESSAGE> to exit
```



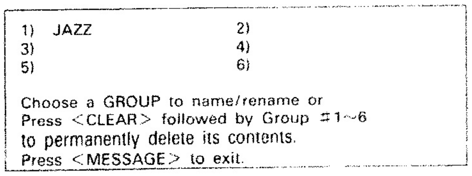
```
1)                2)
3)                4)
5)                6)

Choose a Group to name/rename or
Press <CLEAR> followed by Group ≠1~6
to permanently delete its contents.
Press <MESSAGE> to exit.
```



```
PRESS "UP" & "DOWN" to change letters.
PRESS "◀◀" & "▶▶" to go to a letter.
PRESS "MESSAGE" to exit/finish.
```

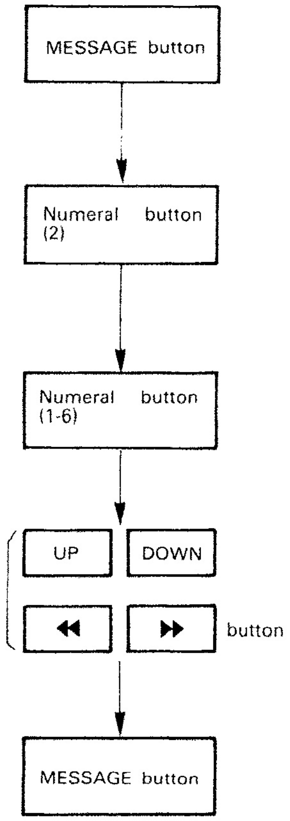


```
JAZZ

PRESS "UP" "DOWN" to change letters.
PRESS "◀◀" & "▶▶" to go to a letter.
PRESS "MESSAGE" to exit/finish.
```



```
1) JAZZ           2)
3)                4)
5)                6)

Choose a GROUP to name/rename or
Press <CLEAR> followed by Group ≠1~6
to permanently delete its contents.
Press <MESSAGE> to exit.
```

- **Labelling Programs**



(Display)

```
PRESS "1" to label or delete Groups
      "2" to label or delete Program
      "3" to label CDs
      "4" to change to SINGLE mode
      "5" to optimize CD playback
      "6" to reset all memory
PRESS <MESSAGE> to exit
```

```
1)                    2)
3)                    4)
5)                    6)

Choose a Program to name/rename or
Press <CLEAR> followed by Group ≒1~6
to permanently delete its contents.
Press <MESSAGE> to exit.
```

```
        [      ▲                 ]

PRESS "UP" & "DOWN" to change letters.
PRESS "◀◀" & "▶▶" to go to a letter.
PRESS "MESSAGE" to exit/finish.
```

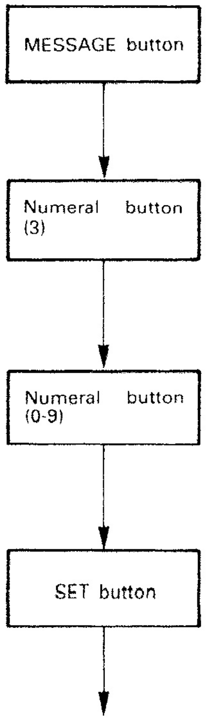
```
        [      MY FAVORITES      ]
                          ▲

PRESS "UP" "DOWN" to change letters.
PRESS "◀◀" & "▶▶" to go to a letter.
PRESS "MESSAGE" to exit/finish.
```

```
1)  MY FAVORITES      2)
3)                    4)
5)                    6)

Choose a Program to name/rename or
Press <CLEAR> followed by Group ≒1~6
to permanently delete its contents.
Press <MESSAGE> to exit.
```

Option 3

You can label each of your CDs with a title, artist or any other name. This allows you to assign a name to each disc in your collection rather than just a number.

Whenever you play that disc in the future, the title you entered will be displayed. Note: If you move this disc to another location in the CD magazine, it will be necessary to rename it.



(Display)

```
PRESS "1" to label or delete Groups.
      "2" to label or delete Program.
      "3" to label CDs.
      "4" to change to SINGLE mode.
      "5" to optimize CD playback.
      "6" to reset all memory.
PRESS <MESSAGE> to exit.
```

```
ENTER DISC NUMBER — 0

PRESS "SET" TO SELECT
PRESS "MESSAGE" TO EXIT
```

```
ENTER DISC NUMBER 1

PRESS "SET" TO SELECT
PRESS "MESSAGE" TO EXIT
```

```
        [      ▲                 ]

PRESS "UP" & "DOWN" to change letters.
PRESS "◀◀" & "▶▶" to go to a letter.
PRESS "MESSAGE" to exit/finish.
```

UP DOWN

◀◀ ▶▶ button

MESSAGE button

(Display)

MICHAEL JACKSON
▲

PRESS "UP" "DOWN" to change letters.
PRESS "◀◀" & "▶▶" to go to a letter.
PRESS "MESSAGE" to exit/finish.

MICHAEL JACKSON

ENTER DISC NUMBER — 0

PRESS "SET" TO SELECT
PRESS "MESSAGE" TO EXIT

Option 4

Usually you'll want to stay in the Continuous mode. In fact, all of the previous instructions assume your machine is in the factory default, Continuous Mode.

Single mode, for radio broadcasters and DJs, will only play one track at a time. When you search for a new track in the Single mode, the player will cue to the beginning of the track. When you press PLAY or PAUSE the track will play in completion then cue to the beginning of the next track.

(Display)

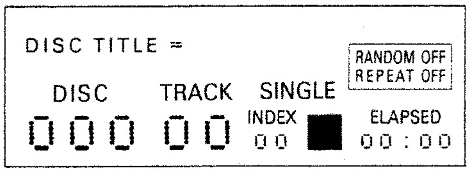
MESSAGE button

PRESS "1" to label or delete Groups.
"2" to label or delete Program.
"3" to label CDs.
"4" to change to SINGLE mode.
"5" to optimize CD playback.
"6" to reset all memory.
PRESS <MESSAGE> to exit.

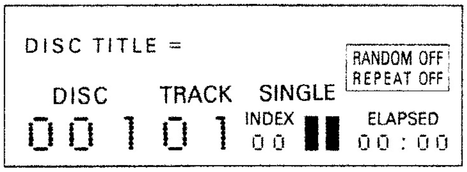
Numeral button (4)

PRESS "1" to label or delete Groups.
"2" to label or delete Program.
"3" to label CDs.
"4" to change to CONTINUOUS mode.
"5" to optimize CD playback.
"6" to reset all memory.
PRESS <MESSAGE> to exit.

MESSAGE button


DISC TITLE =
RANDOM OFF
REPEAT OFF
DISC
TRACK
SINGLE
000
00
INDEX
00
ELAPSED
00:00

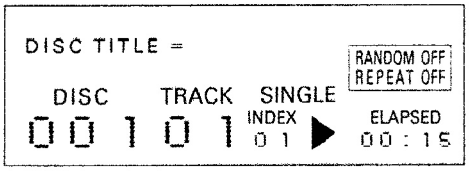
▶ button


DISC TITLE =
RANDOM OFF
REPEAT OFF
DISC
TRACK
SINGLE
001
01
INDEX
00
ELAPSED
00:00

▶ button

or

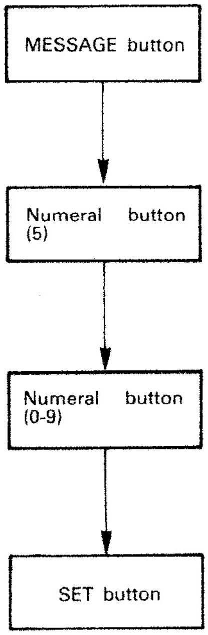
❚❚ button


DISC TITLE =
RANDOM OFF
REPEAT OFF
DISC
TRACK
SINGLE
001
01
INDEX
01
ELAPSED
00:15

Option 5

The controller will ask you the location of the final CD in your library. For example if you have 146 CDs, you should have loaded them into the DN-1200F in order. Therefore, the last CD in your changer is at location 146. If you aren't sure how many CDs you have, there are numbers on the back of both CD magazines to help you determine the total count.

Optimizing the DN-1200F allows you to play randomly or repeat. In the above example, you told the controller there are 146 CDs. Now it knows not to try playing disc 187 when in the Random mode.



(Display)

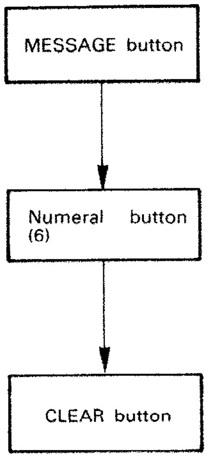
```
PRESS "1" to label or delete Groups.
      "2" to label or delete Program.
      "3" to label CDs.
      "4" to change to SINGLE mode.
      "5" to optimize CD playback.
      "6" to reset all memory.
PRESS <MESSAGE> to exit.
```

```
ENTER LAST LOADING DISC — 000

PRESS "SET" TO SELECT & EXIT
PRESS "CLEAR" TO ERASE
PRESS "MESSAGE" TO EXIT W\NO CHANGE
```

```
ENTER LAST LOADING DISC — 050

PRESS "SET" TO SELECT & EXIT
PRESS "CLEAR" TO ERASE
PRESS "MESSAGE" TO EXIT W\NO CHANGE
```

Option 6

If your application for the DN-1200C changes, it may be easier to erase all the Groups, Programs, Group titles, Program titles, and CD titles all at once.



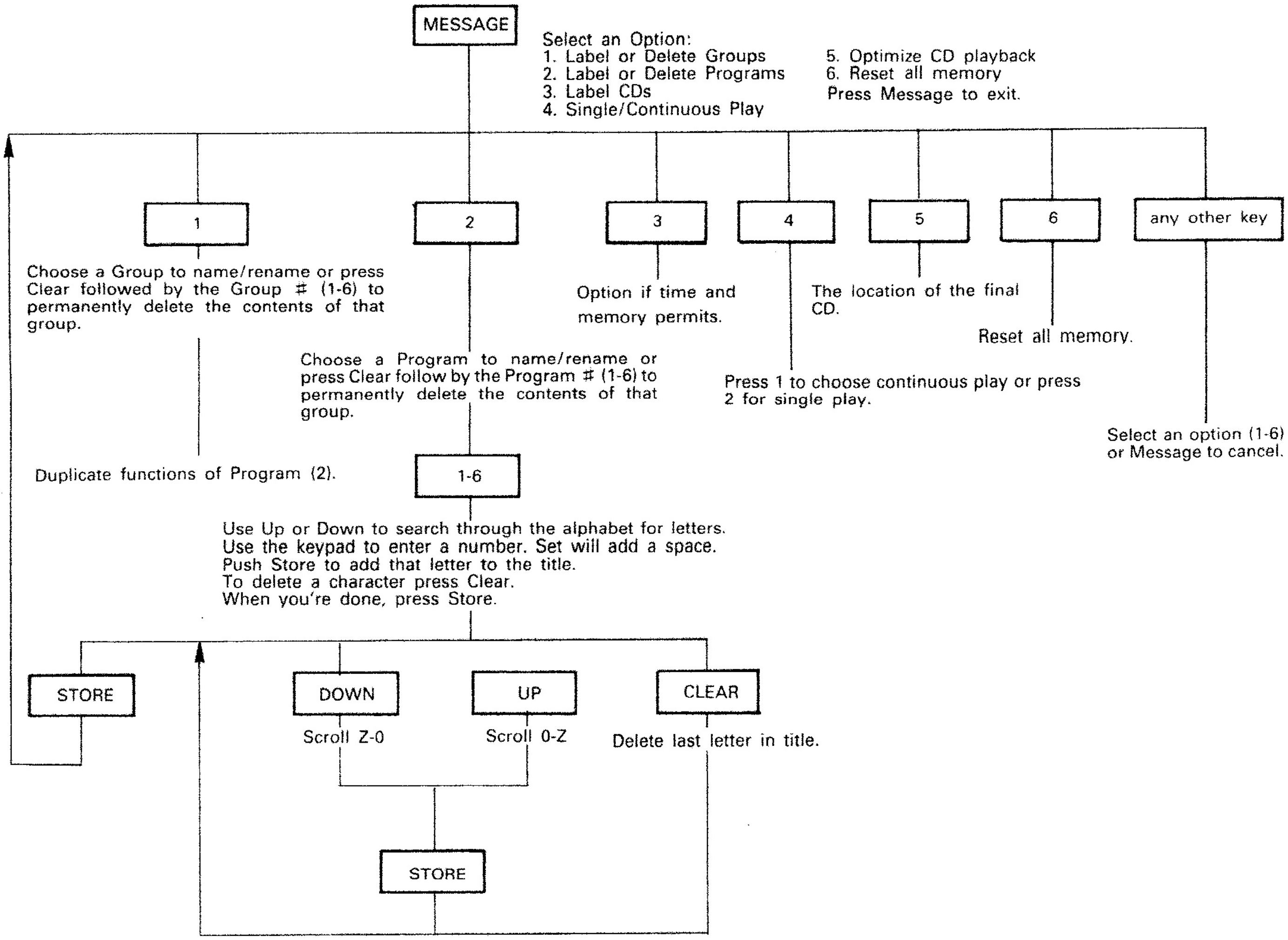
(Display)

```
PRESS "1" to label or delete Groups.
      "2" to label or delete Program.
      "3" to label CDs.
      "4" to change to SINGLE mode.
      "5" to optimize CD playback.
      "6" to reset all memory.
PRESS <MESSAGE> to exit.
```

```
                 ! WARNING !

THIS FUNCTION WILL RESET ALL PROGRAM
AND GROUP MEMORIES!
IF THIS IS REALLY WHAT YOU WANT TO DO
THEN PRESS THE "CLEAR" BUTTON.
PRESS <MESSAGE> TO ABOUT THIS
```

```
ALL PROGRAM & GROUP MEMORY
HAS BEEN ERASED
```

- **MESSAGE**



Select an Option:
1. Label or Delete Groups
2. Label or Delete Programs
3. Label CDs
4. Single/Continuous Play
5. Optimize CD playback
6. Reset all memory

Press Message to exit.

Choose a Group to name/rename or press Clear followed by the Group # (1-6) to permanently delete the contents of that group.

Duplicate functions of Program (2).

Choose a Program to name/rename or press Clear follow by the Program # (1-6) to permanently delete the contents of that group.

Option if time and memory permits.

Press 1 to choose continuous play or press 2 for single play.

The location of the final CD.

Reset all memory.

Select an option (1-6) or Message to cancel.

Use Up or Down to search through the alphabet for letters.
Use the keypad to enter a number. Set will add a space.
Push Store to add that letter to the title.
To delete a character press Clear.
When you're done, press Store.

Scroll Z-0

Scroll 0-Z

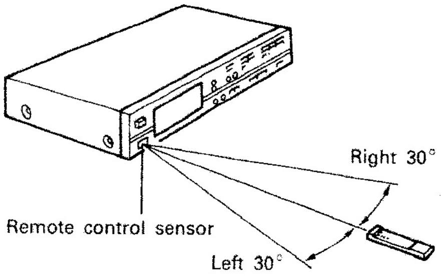
Delete last letter in title.

5 TROUBLESHOOTING

Symptom	Cause	Measures	Page
LCD display does not light and no sound is produced when power switch is turned on	• Power cord is not securely plugged in.	• Plug the power cord in securely.	2, 7
LCD display lights but no sound is produced	• No discs are loaded. • Disc is loaded upside-down. • Condensation. • Shaft is still in the disc rack.	• Load a disc. • Refer to "Loading discs into the DN-1200F" • Leave the unit for 1 to 2 hours with power on. • Return the shaft to its storage position.	7
Sound skips or is noisy	• Disc is dirty.	• Clean the disc.	

(2) Directions for Use

- Operate the remote control unit while pointing it towards the remote control sensor on the controller (see below).



When a remote control signal is received, the remote control indicator on front of the controller lights briefly.

- The remote control unit can be used at a distance up to 8 meters in a straight line from the controller. This distance decreases if there are obstructions blocking the signal path or when the remote control unit is operated at an angle from the remote control sensor.
- The buttons on the remote control unit have identical functions with those on the controller.
  However, the following functions cannot be remote controlled: Power ON/OFF.

Cautions on Use

- Do not press the operation buttons on the main unit and on the remote control unit simultaneously, as this will result in malfunction.
- The remote control unit may not operate properly if the remote control sensor is exposed to direct sunlight or strong artificial lighting, or if there is an object between the remote control unit and the remote control sensor.

7 SPECIFICATIONS

GENERAL

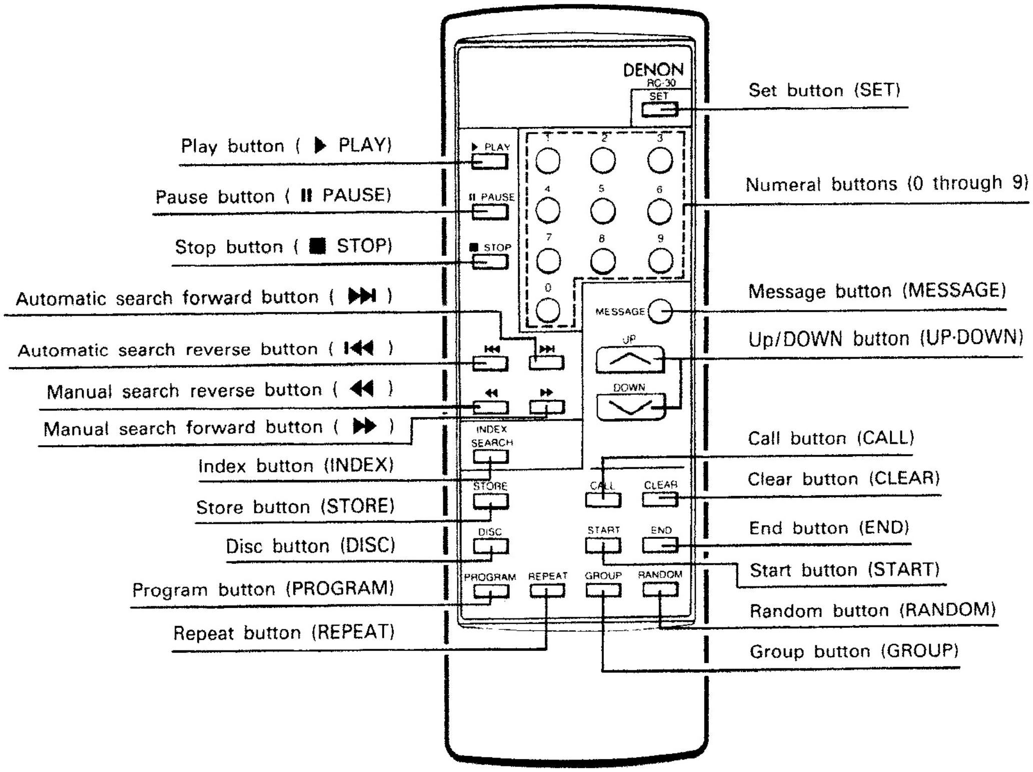
Type	CD changer controller
Audio channel	2 channels
Discs	Philips type compact discs (12 cm)
Quantization	16 bit Linear
Sampling frequency	44.1 kHz
Digital to analog converters	20 bit DAC
Power supply	120 V AC 60 Hz for U.S.A. & Canada 120 V (108~132 V)/230 V (207~255 V) AC, 50/60 Hz Selectable
Power consumption	11 W
Dimensions	434 (W) × 88 (H) × 265 (D) mm (Legs not included)
Net weight	5 kg

AUDIO DATA

Analog Output	
Frequency response	20 Hz ~ 20 kHz within 1 dB range
Dynamic range	100 dB
Signal to noise ratio	110 dB (with respect to maximum level) ("A" weight)
Total harmonic distortion	0.0025% (at maximum level, 1 kHz)
Channel separation	105 dB (at maximum level, 1 kHz)
Wow and flutter	Undetectable
Output voltage	2.0 V rms
Load impedance	10 k ohm or more
Digital Input	AES/EBU format, balanced output 3 Vp-p, bi-phase

* Specifications and design are subject to change without notice for purpose of improvement.

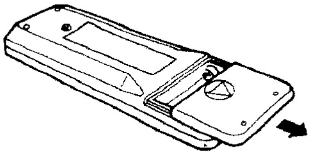
6 REMOTE CONTROL UNIUT RC-30


DENON
RC-30
Set button (SET)
Play button (▶ PLAY)
Pause button (❚❚ PAUSE)
Stop button (■ STOP)
Numeral buttons (0 through 9)
Automatic search forward button (▶▶❚)
Message button (MESSAGE)
Automatic search reverse button (❚◀◀)
Up/DOWN button (UP·DOWN)
Manual search reverse button (◀◀)
Manual search forward button (▶▶)
Call button (CALL)
Index button (INDEX)
Clear button (CLEAR)
Store button (STORE)
End button (END)
Disc button (DISC)
Start button (START)
Program button (PROGRAM)
Random button (RANDOM)
Repeat button (REPEAT)
Group button (GROUP)

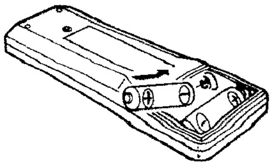
The accessory RC-30 remote control unit can be used to control the controller from a convenient distance.

(1) Inserting the dry cell batteries

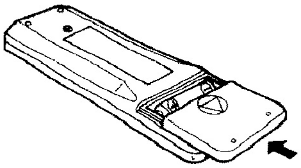
1. Remove the battery cover on the back of the remote control unit.



2. Insert two R6P (standard size AA) dry cell batteries with correct polarity as indicated inside the battery compartment.



3. Replace the battery cover.



Notes on the Batteries

- The remote control unit uses standard size AA dry cell batteries.
- The batteries will need to be replaced approximately once a year. Replacement may be necessary earlier depending on how much the remote control unit is used.
- If, in less than a year from the time new batteries were inserted, the remote control fails to operate the controller from a near-by position, it is time to replace the batteries.
- Insert the batteries properly, following the polarity diagram inside the battery compartment, in other words make sure (+) and (–) terminals are properly aligned.
- Batteries are prone to damage and leakage. Therefore:
  - Do not combine new batteries with used ones.
  - Do not combine different types of batteries.
  - Do not jumper opposite poles of the batteries, expose them to heat, break them open nor expose of them in open fire.
- If the remote control unit is not to be used for a long period of time, remove the batteries from the unit.
- If the batteries have leaked, remove any traces of battery fluid from the battery compartment, wiping thoroughly with a dry cloth. Then insert new batteries.

NOTE :

REGARDING RANDOM ALL PLAY MODE.

1) IN DIRECT MODE AND GROUP MODE, UNIT MAY, BY CHANCE, SELECT SAME TRACK OF SAME DISC AGAIN.

2) IN PROGRAM MODE UNIT DOES NOT PLAY SAME TRACK OF SAME DISC AGAIN.

Achtung :

Betrifft Zufallswiedergabe RANDOM ALL :

1. Im DIRECT MODE und im GROUP MODE wählt das Gerät möglicherweise auch zweimal einen Track auf einer CD an .

2. Im PROGRAM MODE spielt Gerät kein zweites mal einen Track auf einer CD ab.

REMARQUE SUR LES MODES ALEATOIRES (RANDOM ALL).

1) En mode direct (direct mode) et mode groupe (group mode) l' appareil peut selectionner un même morceau d'un même disque.

2) En mode programme l'appareil ne sélectionne pas un même morceau d'un même disque.

Respecto al modo de reproduccion RANDOM ALL

1) En el modo directo y en modo grupo, la unidad permite seleccionar el mismo tema del mismo disco.

2) En modo programa la unidad no reproduce el mismo tema del mismo disco de nuevo.